V1.2EZ -3/07

Family Information Form-Template

Manufacturer:

Engine category:

Cert contact:

Go toCBI & Diagnostics Page

1. Model Year:	2012
2. Carry over:	
If yes, list the previous family:	
3. Process Code:	New Submission
Date EPA Fee Paid:	1/30/2012
4. EPA Standard Engine Family:	CNVXH07570GE
5. Mfr's Family Name:	MaxxForce 13
6. Engine Cycle:	Diesel
7. Displacement(s) (CID or Liters}	757 cid
8. Engine Configuration:	I-6

Use the following format:V-8 or I-6

Applicable Regulations

- ○ Part 89
- ○ Part 1039

} Nonroad CI

- ○ Part 60 only certified to requirements of Part 1039
- ○ Part 60 only certified to requirements of Part 89

} Stationary only

- ○ Part 60 and Part 1039
- ○ Part 60 and Part 89

} Stationary-Nonroad CI

Note: New or modified fields for the 2007 MY on-hwy certification

Note: New or modified fields for stationary engines and new reg. parts 60/1039 are in

New change explanation

9. Emission Control & Aftertreatment:

Check all that apply

- ☒ Electronic control
- ☐ Engine Modification
- ☐ 3WCatalyst
- ☐ Smoke puff limiter
- ☐ Passive DPF
- ☒ Active DPF
- ☒ EGR
- ☐ NOx adsorber
- ☐ Lean NOx
- ☐ SCR
- ☒ DOC
- ☐ None
- ☐ Other

If Other Describe:

19. Plant Contact:

EPA (b) (4) CBI

20. Plant Location:

EPA (b) (4) CBI

21. ABT Information: Check all that apply

- ☐ In the split family program
- ☐ PM
- ☐ NOx
- ☐ NMHC+NOx
- ☐ NA

10. Fuel Type:	Diesel
11. Fuel System Type:	Electronic Direct Injection
12. Method Of Aspiration:	Two Stage Turbo
Turbocharger Type	fixed turbo
Aftercooling	Air to Water

22. Family Emission Limits:

PM	
NOx	0.2
NMHC + NOx	
Units:	g/bHp-hr

13 Useful Life Period:	10 yrs / 435,000 mi / 22,000hrs
14. Deterioration Factor Type	
A. Gaseous Exhaust:	Multiplicative
B. Smoke:	NA

23. Nonroad Engine Equipment Types:

- ☐ Crane
- ☐ Dozer
- ☐ Generator Set
- ☐ Loaders
- ☐ Pump
- ☐ NA
- ☐ Tractor
- ☐ Compressor
- ☐ Other...

15. Intended Service Class: HHDD

If CFF, Select which category:

16. Projected Sales :

FED	EPA (b) (4) CBI
CA	EPA (b) (4) CBI
TOTAL	EPA (b) (4) CBI

17. Estimated Production Period:

Start	EPA (b) (4) CBI
End	EPA (b) (4) CBI

18. Sales Area: (●) Fed ( ) Cal ( ) 50 St

24. Auxiliary Emission Control Devices:

AECD	Sensed	PARAMETER	Controlled	VMT	TONS/ENGINE	Reduces effectivness of emission control?
** See written submission						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes
						( ) Yes

Examples of AECDs:
Engine Starting
Warm up
White Smoke
Extended Idle
Condensation
Acceleration
Altitude
Air Handling
Over heat
PTO
Regen Strategies

25. Adjustable Parameters:

Parameter	Adjustable Range (or N/a)	Tamper Resistance Method (or N/a)
Idle Speed	600-750 rpm	N/A

26. OBD

OBD Approval date:

OBD Approval Method:

Examples: letter from EPA , verbal from EPA, E.O. covers it

27. Maintenance Interval

Alternate Maintenance Int.? ○ Yes

If yes, describe

28. Is this engine family using the Delegated Assembly flexibility described in 85.1713? ◉ Yes ○ No

If yes, attach plan in a container field on technical description page

29. Comments:

Note: If the comment text box is too big you can adjust the box by going to View Layout Mode you can move the box and box by grabbing the corner of the box ... to the Browse Mode for data entry. Be easily be done in the Layout Mode.

EPA (b) (4) CBI

[Item 16] of the [Supplemental Test] tab does not include modal data since the ramped-modal cycle (RMC) version of the USSET was utilized.

Navistar is electing not to establish an adjustment factor on the RMC test cycle and will accept the impact of emissions during these tests.

**** Written submission contains AECD information and is CBI indefinitely.**

EPA (b) (4) CBI

Test Information Form

Manufacturer: **Navistar Inc**

Engine category: **On-highway HDDE**

Cert contact: **Julia Winter**

1. EPA Standard Engine Family: **CNVXH07570GE**
2. Process Code: **New Submission**
3. Test Data Set: **1**
4. Engine Code: **A475**
5. Engine Model: **A475**
6. Displacement(s) (cid Or Liters): **757cid**
7. Engine I.d. Number: **SN 4126653**
8. Rated HP @ **475** @ Rated RPM: **1700**
9. Torque (ft-lb) @ **1700** @ Engine RPM: **1000**
10. WAIVERs:

CO	PM	Smoke	Idle Co
NA	NA	NA	NA

11. Cold Start? **No**
12. Certification Fuel: **Diesel(Part 86.1313-2007(b)-(2)TableN07-2**
13. Special Test Device **No**
14 Test Procedure: **On-Hwy Diesel**

15. Crankcase emissions (CCEs)

- ○ **CCEs routed into the air inlet system**
- ◉ **CCEs routed into the exhaust upstream of aftertreatment**
- ○ **CCEs measured separately from exhaust emissions.**

If the CCEs are measured separately list them in the tech. description (item 13) and account for them in the test results listed below.

16. Official Test Results Date: **5/18/2012**

	Test 1	Test 2	Test 3	DFs
HC/OMHCE				
NMHC/OMNMHCE	**0.04**			**3.474**
HC + NOx				
CARBON MONOXIDE	**2.01**			**1.000**
OXIDE OF NITROGEN	**0.20**			**1.000**
PARTICULATE	**0.002**			**6.167**
FORMALDEHYDE				
ACCELERATION (%opacity)				
LUGGING (Gen) (%opacity)				
PEAK (%opacity)				
IDLE CO %				
CO2	**616**			

DPF

Strategy

NOx Adsorber, etc

17. Adjustment Factors

	EFL	EFH	UAF	DAF
HC/OMHCE	0.036	0.040	0.000	-0.004
CARBON MONOXIDE	2.007	4.597	0.057	-2.533
OXIDE OF NITROGEN	0.197	0.483	0.006	-0.279
PARTICULATE	0.002	0.005	0.000	-0.003

Frequency Factor: .074

	EFL	EFH	UAF	DAF

Frequency Factor:

18. Certification Levels (Rounded Test Results)

Units-- g/bHp-hr --Units

				STDs g/BHP-hr	STDs g/kW-hr	FELs
HC/OMHCE						
NMHC/OMNMHCE	0.12					
NMHC + NOx						
CARBON MONOXIDE	2.06					
OXIDE OF NITROGEN	0.20					0.2
PARTICULATE	0.01					
FORMALDEHYDE						
ACCELERATION (%opacity)						
LUGGING (Gen) (%opacity)						
PEAK (%opacity)						
IDLE CO%						

Supplemental Test Information Form

Manufacturer: **Navistar Inc**

Engine category: **On-highway HDDE**

1. EPA Engine Family: **CNVXH07570GE**
2. Process Code: New Submission
3. Test Data Set: 1
4. Engine Code: A475
5. Engine Model: A475
6. Displacement(s) (cid Or Liters): 757CID
7. Engine I.d. Number: SN 4126653
8. Rated HP @ Rated RPM: 475 @ 1700
9. Torque (ft-lb) @ Engine RPM: 1700 @ 1000
10. WAIVERs:

CO	PM	Smoke
NA	NA	Yes

11. Cold Start? No
12. Certification Fuel: Diesel(Part 86.1313-2007(b)-(2)TableN07-2
13. Special Test Device No
14. Test Procedure: Supplemental Euro III

15. Supplemental Euro III Test Information

						Mystery Points	
						% Speed	% Load
Test Date:	5/19/2012	A Speed:	1436 (RPM)	A Speed Max Torque:	1610 (ft-lbs)		
N_{lo} Speed:	1254 (RPM)	B Speed:	1617 (RPM)	B Speed Max Torque:	2050 (ft-lbs)		
N_{hi} Speed:	1981 (RPM)	C Speed:	1799 (RPM)	C Speed Max Torque:	1704 (ft-lbs)		

16. Supplemental Euro III Modal Results (g/bhp-hr):

ESC Test Point

	1	2	3	4	5	6	7	8	9	10	11	12	13	Myst 1	Myst 2	Myst 3
HC/OMHCE																
NMHC/OMNMHCE																
HC + NOx																
CO																
NOx																
Formaldehyde																
RPM																
Torque (ft - lbs)																

NOx Adsorber, etc

Strategy

17. Adjustment Factors

	DPF							
	EFL	EFH	UAF	DAF	EFL	EFH	UAF	DAF

HC/OMHCE	0.003	0.000	0.000	0.003				
CARBON MONOXIDE	0.040	0.000	0.000	0.040				
OXIDE OF NITROGEN	0.159	0.000	0.000	0.016				
PARTICULATE	0.001	0.000	0.000	0.001				

Frequency Factor: 0.0

Frequency Factor:

18. Weighted Composite Results (g/bhp-hr):

HC/OMHCE					
NMHC/OMNMHCE	0.00		3.474		0.01
HC + NOx					
CO	0.04	X	1.000	=	0.04
NOx	0.16		1.000		0.16
Formaldehyde					
PM (Composite only)	0.001		6.167		0.01

19. Deterioration Factors:

DF Type: Multiplicative

Same DFs as test page

20. Certification Levels (g/bhp-hr):

Limits

21. Transient Load Response Limit Results (g/bhp-hr):

	HC	NOx	PM	Beginning Load (ft-lbs)	Sample Interval Length
Lowest NTE Speed					
15% ESC Speed					
25% ESC Speed					
50% ESC Speed					
75% ESC Speed					
100% ESC Speed					

Technical Description Form 1

Manufacturer: **Navistar Inc**

Engine category: **On-highway HDDE**

EPA Engine Family: **CNVXH07570GE**

Mfr Family Name: **MAXXFORCE 13**

Process Code: **New Submission**

1. Diagrams/ Drawings/Schematics:

2. Diagrams/ Drawings/Schematics:

3. Diagrams/ Drawings/Schematics:

4. Diagrams/ Drawings/Schematics:

5. Diagrams/ Drawings/Schematics:

6. Diagrams/ Drawings/Schematics:

7. Diagrams/ Drawings/Schematics:

8. Diagrams/ Drawings/Schematics:

9. Diagrams/ Drawings/Schematics:

10. Diagrams/ Drawings/Schematics:

11. Diagrams/ Drawings/Schematics:

12. Diagrams/ Drawings/Schematics:

13. Crankcase emission measured separately

	Test 1	Test 2	Test 3
HC/OMHCE			
NMHC/OMNMHCE			
HC + NOx			
CARBON MONOXIDE			
OXIDE OF NITROGEN			
PARTICULATE			
FORMALDEHYDE			
ACCELERATION (%opacity)			
LUGGING (Gen) (%opacity)			
PEAK (%opacity)			
IDLE CO %			

CO2

Technical Description Form 2

Manufacturer: **Navistar Inc**

Engine category: **On-highway HDDE**

EPA Engine Family: **CNVXH07570GE**

Mfr Family Name: **MAXXFORCE 13**

Process Code: **New Submission**

14. Technical Description:

Delegated Assembly Plan pursuant to 40 CFR 85.1713
Navistar will :
1. Provide installation instructions to ensure that the engine will be in its certified configuration when assembly is complete.
2. Enter into contracts with vehicle manufacturers that state the vehicle manufacturer must complete the final assembly of the engine so it is in its certified configuration in the vehicle.
3. Obtain annual affidavits from the vehicle manufacturers, dealers, and distributors that state the engines were put into a certified configuration upon final assembly. These affidavits will include the part numbers of the aftertreatment devices installed with each engine purchased from Navistar.
4. Navistar will utilize the exemption under this provision to sell engines to vehicle manufacturers including those for fire trucks, dock spotters, and other various applications. Navistar will require signed contracts by vehicle manufacturers to ensure the proper aftertreatment devices were installed to put the final engine assembly in a certified configuration and to supply Navistar with annual affidavits.
5. Navistar will retain records to document how many engines were produced under this exemption. Contractual agreements
will also be kept. Both documents will be held for a minimum of five years and supplied to the agency upon request.
6. All engines will contain the proper emission label per the standard-setting part.
7. If the price of the aftertreatment is not included in the price of the engine, in addition to numbers 1 through 6 above, Navistar will perform audits per 40 CFR 85.1713 (c)(3). Furthermore, Navistar will not ship an engine until written confirmation from the vehicle manufacturer that the appropriate aftertreatment components have been received.
8. Navistar will devise a plan to audit each vehicle manufacturer on average once every four years. These audits will include facilities, procedures, and production records of the vehicle manufacturer. Included in this investigation will be the examination of assembled engines to confirm a certified configuration and the review of records to confirm the number of aftertreatment components shipped were adequate for the number of engines supplied.

Note: If the technical description tex
you can adjust the box by going to V
Layout Mode you can move the box
box by grabbing the corner of the bo
to the Browse Mode for data entry.
easily be done in the Layout Mode.

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
CNVXH07570GE	A475	A475	475@1700	297.6	169.5	1700@1000	313.4	105	DI, ECM, TC
									CAC, EGR, OC
									PTOX

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
									Description	Part Number
CNVXH07570GE	TBD	A475	3005275C1	3005783C92	3005699C92	3007009C2	DPF+DOC		Cam Shaft	62271207038
CNVXH07570GE					3005700C93		3860631C92		Fuel Rail psi	3005793C1
CNVXH07570GE							PREDOC		Oil Temp	62274210190
CNVXH07570GE							3006598C1		Coolant Temp	62274210190
CNVXH07570GE									Manifold Temp	62274210165
CNVXH07570GE									Ambient Air Temp	3561562C1

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
									Description	Part Number
CNVXH07570GE									Doser Fuel psi	3006082C1
CNVXH07570GE									DPF Delta psi	3626432C1
CNVXH07570GE									Lambda	3006233C1
CNVXH07570GE									Boost psi,	1846481C92
CNVXH07570GE									Crank Shaft	62271207038
CNVXH07570GE									Exahaust Gas Temp	3006419C1 3006420C1 3006421C1

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
									Description	Part Number
CNVXH07570GE									Humidity	3006679C91
									Exhaust pressure	3005844C3

Part Number Summary Template

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
									Description	Part Number

Part Number Summary Template 2

Miscellaneous Part Names and Numbers

Engine Family	Engine Code	Engine Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
CNVXH07570GE	TBD	A475	EGR Valve	3008449C1	Intake Throttle	3005375C1	EGR Cooler	3005686C94	Doser	3006082C1
CNVXH07570GE										
CNVXH07570GE									Doser Valve	3006107C91
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										

Part Number Summary Template 2

Engine Family	Engine Code	Engine Model	Miscellaneous Part Names and Numbers							
			Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										

Part Number Summary Template 2

Miscellaneous Part Names and Numbers

Engine Family	Engine Code	Engine Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
CNVXH07570GE										

Part Number Summary Template 2

Engine Family	Engine Code	Engine Model	Miscellaneous Part Names and Numbers							
			Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number

Part Number Summary Template 3

Engine Family	Engine Code	Engine Model	Miscellaneous Part Names and Numbers							
			Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
CNVXH07570GE	TBD	A475	Coolant Control valve	3008066C93	BREATHER	3006814C1	Calibration	P810_7832_ ver9a_VV_0517 2012_ 1130am		
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										

Part Number Summary Template 3

Engine Family	Engine Code	Engine Model	Miscellaneous Part Names and Numbers							
			Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										
CNVXH07570GE										

Part Number Summary Template 3

Engine Family	Engine Code	Engine Model	Miscellaneous Part Names and Numbers							
			Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number

Statement of Compliance

On-highway HDDE

EPA (b) (4) CBI

May 21, 2012

Certification Team Leader
Engine Compliance Programs Group
U.S. Environmental Protection Agency
Mail Code: 6405-J
Washington, DC 20460

Dear Certification Team Leader:

Please find enclosed the model year 2012 application for engine family CNVXH07570GE. On behalf of Navistar, Inc., I hereby certify that the test engines, as described in this application for certification, has been tested in accordance with the applicable test procedures, utilizing the fuels and equipment required under Subparts D, I and N of 40 CFR Part 86, and that on the basis of such tests, the engine conforms to the requirements of 40 CFR Part 86, applicable guidance documents, and based on information in its possession at the time of certification, Navistar, Inc. affirms these engines will meet the NTE screening limits, as those limits are modified by relevant NTE exclusions and deficiency provisions, under all conditions which can reasonably be expected to be encountered in normal vehicle operation and use.

I further certify that all engines in these engine families are in all material respects as described in this Application for Certification and comply with all requirements of 40 CFR Part 86 and the Clean Air Act.

[CBI]
I hereby assert that certain information in this application is confidential business information. The information which we assert to be confidential business information has been marked as such in the Application for Certification.

Sincerely,

EPA (b) (4) CBI

Navistar. Inc.

Manufacturer: **Navistar Inc**

Engine category: **On-highway HDDE**

EPA Engine Family: **CNVXH07570GE**

Mfr Family Name: **MAXXFORCE 13**

Process Code: **New Submission**

Address Form

Each field on this form must be filled in.

EPA (b) (4) CBI FIRST NAME | EPA INITIAL | EPA (b) (4) CBI LAST NAME

EPA (b) (4) CBI TITLE | EPA (b) (4) CBI DIVISION

Navistar, Inc COMPANY NAME | PO BOX

EPA (b) (4) CBI ADDRESS

EPA (b) (4) CBI CITY | EPA STATE | EPA (b) (4) CBI COUNTRY

EPA (b) (4) CBI ZIP | EPA (b) (6) Personal Info E-MAIL | BEEPER (OPTIONAL)

EPA (b) (6) Personal Info PHONE | FAX

GENERAL COMMENTS